Use a Common Anode RGB LED

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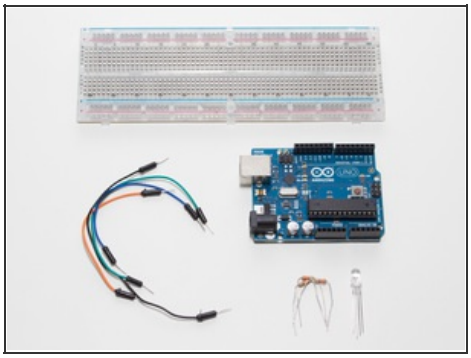
PARTS:

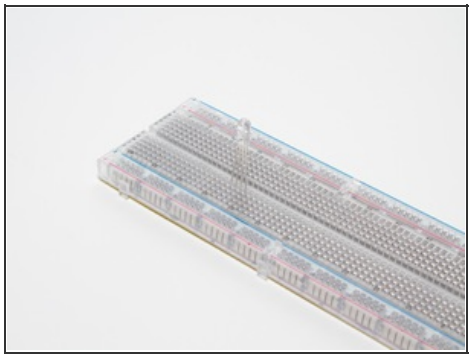
- Common Anode RGB LED (1)
- 330 ohm resistor (3)
- Jumper Wire (4)

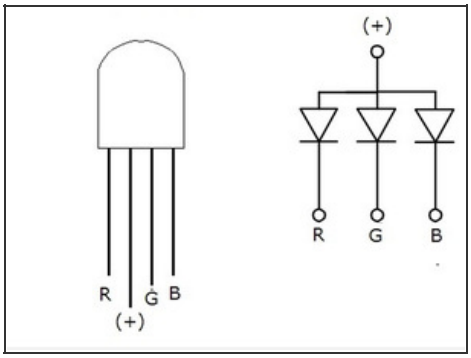
SUMMARY

How to fade between colors with the Common Anode RGB LED, included in Maker Shed's Ultimate Arduino Microcontroller Pack.

Step 1 — Plug in the RGB LED

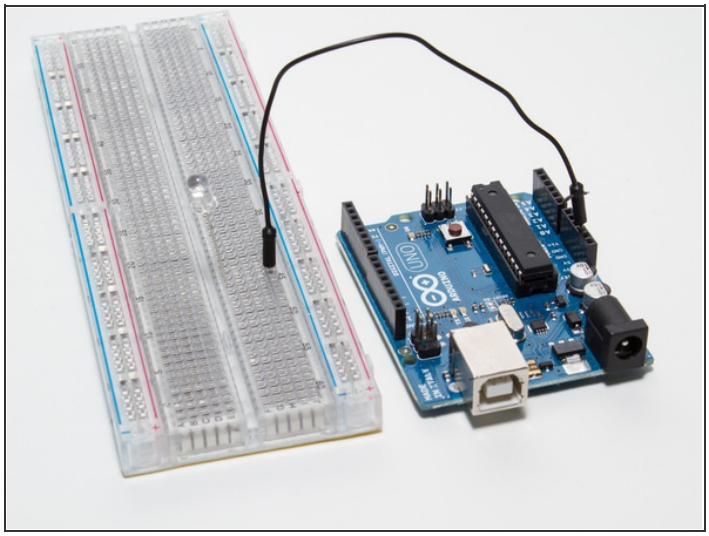


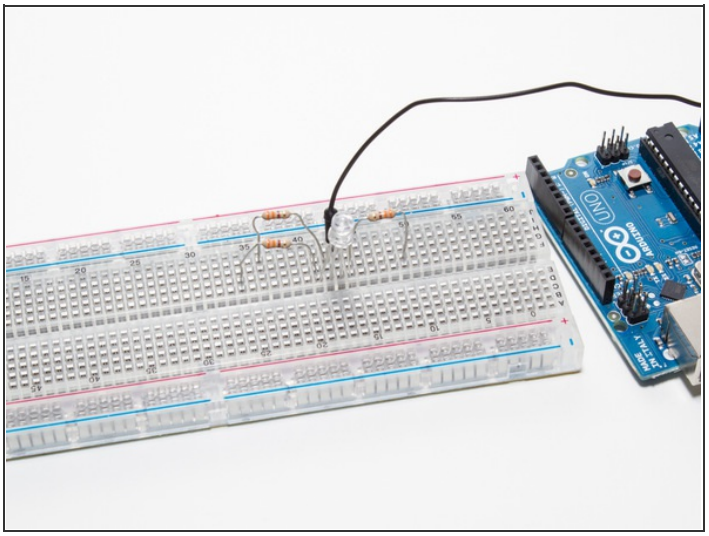




- Grab all the parts, and begin by plugging the Common Anode RGB LED into your breadboard.
  - Orient it in the breadboard with the red leg on the left, and power leg second from the left.
  - That's power (long) leg to F42 on the breadboard, with the red leg right next to it in F43.

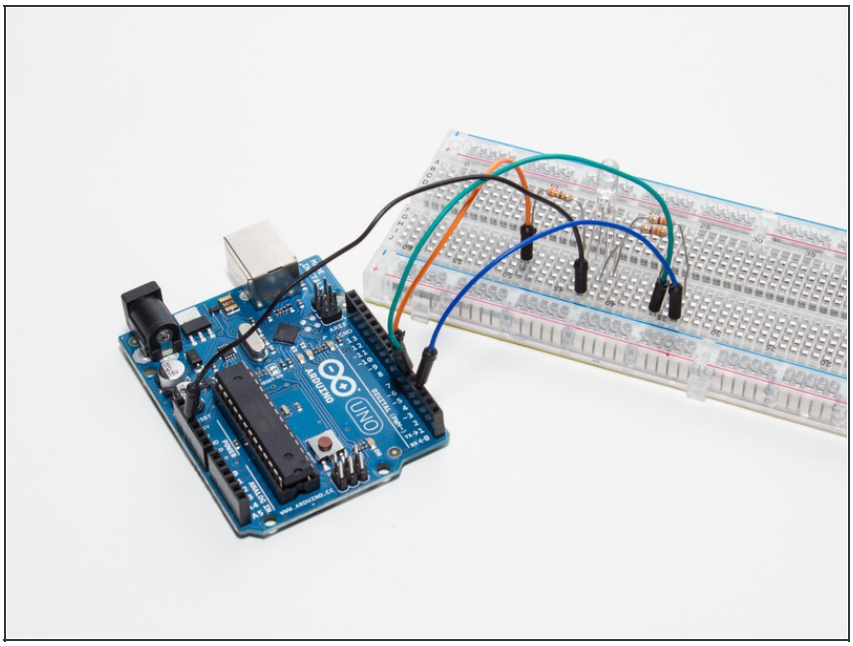
Step 2 — Begin the wiring





- Now wire up the positive (longest) lead of the LED to the 5V header on the Arduino.
  - You can use a jumper from J42 to the Arduino.
- Connect the three resistors, one from each of the three other LED pins to another spot on the transparent breadboard.
  - Place one 330 Ω resistor in G43 and G49.
  - Place another 330 Ω resistor in H41 and H35.
  - Place the last 330 Ω resistor in G40 and G34.

Step 3 — Connect the RGB pins to the Arduino



- Next, connect the three pins of the LED to the Arduino.
  - Red goes to PWM Pin 6, from breadboard pin J49.
  - Green goes to PWM Pin 5, from breadboard pin J35.
  - Blue goes to PWM Pin 3, from breadboard pin J34.
- Now you can grab the code from GitHub and upload it to your Arduino. Have fun!

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